

# Inlet Hydrogen Sulphide Monitoring System



These systems have been designed for the continuous monitoring of Hydrogen Sulphide ( $H_2S$ ) levels within the Inlet duct before odour control equipment on Waste Water Treatment Works. Ranges can be calibrated anywhere in between 0–1000 ppm, but no lower than 0–5 ppm ( $H_2S$ ).



## FEATURES AVAILABLE

- Sampling and conditioning equipment
- Suitable for Zone 1 or Zone 2 classified inlet duct gas streams
- Analogue 4–20 mA signal
- Volt free contact for sample pump flow failure
- Volt free contact for sensor pump flow failure
- Text messaging fault conditions (see Wireless Communications leaflet)
- Viewing window
- Security key lockable cabinet versions
- Frameworks for floor or wall mounting

## FACILITIES AVAILABLE

- Design
- Manufacture
- Installation
- Delivery
- Commissioning
- Demonstration
- Training
- Servicing
- Hire

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### SYSTEM SPECIFICATIONS

- System can be configured to operate from either 110V or 240V mains supply. Internal power supply used to drive 24V sensor cell.
- Standard cabinet is supplied IP66 rated in GRP; cabinets with viewing window are also supplied in GRP and rated to IP56.
- Single analogue 4–20 mA signal proportional to range.
- Sequential sampling numerous points around the plant to a single system, subject to maximum sample line length of 100 metres.
- Optional flow failure facility on sample pump (VFC).
- Optional flow failure facility on sensor pump (VFC).
- Optional text messaging of alarm and fault conditions – subject to suitable network coverage.
- Optional security key lockable cabinet.
- Hot dip galvanised frameworks for floor or wall mounting.
- Dilution system option for high levels of gas.
- Pumped system to counter the issues related with differential pressure systems caused by changes in flow and pressure.
- Calibrated to H<sub>2</sub>S but is cross sensitive to other odours such as Mercaptans. Measurement should be used for trending information rather than to control process due to cross sensitivity to other gases.
- Standard system to be serviced every 6 months. This may increase if our dilution system has been included.
- Standard instrumentation cabinet 800 x 600 x 300mm.
- Standard Hotbox dimensions 560 x 380 x 180mm.
- Safety systems installed to meet HSE judgement on ATEX Directive for Zone 1 and Zone 2 gas stream applications.
- Standard systems can be easily modified for multi gas applications or to meet specific site requirements as necessary.
- Numerous ppm ranges available, bespoke calibration range to suit your application.

